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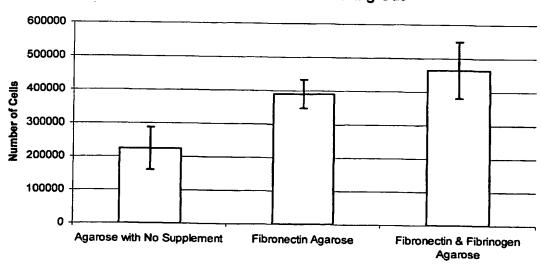
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(54) Title: ENCAPSULATED CELL FOR THERAPY

Number of Cells Coming Out



(57) Abstract: Cell therapy comprises encapsulating a cell with an integrin or other cell interaction factor, for administration to a mammal. The cells may express a therapeutic transgene or the cells may be regenerative.

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International Application No PCT/CA 03/02008

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N11/04 A61K35/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with Indication, where appropriate, of the relevant passages Relevant to claim No. X RAMDI HAFIDA ET AL: "Influence of 1,2, 10-37 matricial molecules on growth and differentiation of entrapped chondrocytes" EXPERIMENTAL CELL RESEARCH, vol. 207, no. 2, 1993, pages 449-454, XP002275507 ISSN: 0014-4827 page 449, left-hand column, paragraph 1 right-hand column, paragraph 1 page 450, left-hand column, paragraphs 1,2 page 451, right-hand column, paragraph 2 page 452, left-hand column, paragraph 2 page 453, right-hand column - page 454, paragraph 4 -/--Х Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 30 March 2004 07, 09, 2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Sitch, W

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Pateriory Citation of document with Indication					
	passages	Relevant to claim No.			
X	DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1995, JAIN KANTI ET AL: "Retrievable, replaceable, macroencapsulated pancreatic islet xenografts" XP002275511 Database accession no. PREV199598235605 abstract & TRANSPLANTATION (BALTIMORE), vol. 59, no. 3, 1995, pages 319-324, ISSN: 0041-1337	1,2, 10-37			
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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/CA 03/02008
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCI/CA U		
Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.				
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International application No. PCT/CA 03/02008

Box i	Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
This inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 24, 25, 28, 29 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inter	national Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1/s	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3 A	As only some of the required additional search fees were timely paid by the applicant, this International Search Report sovers only those claims for which fees were paid, specifically claims Nos.:
	to required additional search fees were timely paid by the applicant. Consequently, this International Search Report is estricted to the invention first mentioned in the claims; it is covered by claims Nos.: Partially 1, 2, 10-37
Remark or	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 24, 25, 28, 29 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: Partially 1, 2, 10-37

A method of encapsulating a cell, wherein the method used results in the encapsulation product including an 'integrin binding partner', and wherein said 'integrin binding partner' is a collagen; use of products obtainable thereby, kit for use therein

2. claims: Partially 1, 2, 10-37; completely 3-5, 9

As 1, but wherein the 'integrin binding partner' is selected from the group consisting of fibronectin, vitronectin, von Willebrand Factor, tenascin, laminin, fibrinogen, thrombospondin, an RGD [1 letter amino acid code used] containing peptide, fibrin, and insofar as the subject matter of the invention does not relate to any in any of the other inventions listed herein

3. claims: Partially 1, 2, 10-37

As 1, but wherein the 'integrin binding partner' is a peptide containing the sequence LDV [1 letter amino acid code used], and insofar as the subject matter of the invention does not relate to any in any of the other inventions listed herein

4. claims: Partially 1, 2, 10-37

As 1, but wherein the 'integrin binding partner' is a peptide containing the sequence HHLGGAKQAGDV [1 letter amino acid code used], and insofar as the subject matter of the invention does not relate to any in any of the other inventions listed herein

5. claims: Partially 1, 2, 10-37

As 1, but wherein the 'integrin binding partner' is selected from the group consisting of VCAM-1, MAdCAM-1, LFA-1, Mac-1, ICAM-1, ICAM-2, ICAM-3, complement component C3bi, and insofar as the subject matter of the invention does not relate to any in any of the other inventions listed herein

6. claims: Partially 1, 2, 10-37; completely 6-8

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

As 1, but wherein the 'integrin binding partner' is selected from the group consisting of Factor X, FXIII, FXIIIa, and insofar as the subject matter of the invention does not relate to any in any of the other inventions listed herein

page 2 of 2

Information on patent family members

International Application No PCT/CA Θ 3/02008

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